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(54) PYRROLOIMIDAZOLE DERIVATIVE AND ITS PREPARATION

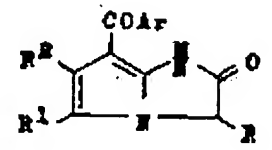
(57)Abstract:

NEW MATERIAL:A compound of formulaI(R is H or lower alkyl; R1 and R2 are H, lower alkyl, halogen, etc.;Ar is phenyl or pyridyl which may have a substituent group).

EXAMPLE: 7-(o-Chlorobenzoyl)-5-ethyl-1H-pyrrolo [1,2-a] imidazole-2(3H)-one.

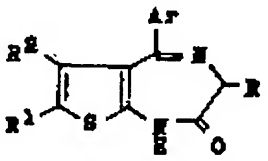
USE: An anti-inflammatory and analgesic agent, antithrombotic agent and an intermediate therefor having anti-inflammatory analgesic and inhibitory action on blood platelet aggregation.

PROCESS: A compound of formula IIis subjected to the desulfurizing ring closing reaction in the presence of a basic catalyst to give the compound of formulaI. The reaction is carried out in an inert solvent, e.g. pyridine, picoline or benzene, in the presence of a strongly basic catalyst, e.g. Li, Na, K, sodium hydride or lithium hydride, in a molar amount of 0.1W3 times that of the compound of formula II under heating. The compound of formula III which is a by-product will not be formed at all.



I

II



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LEGAL STATUS

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